

**10**  
Marks

**1** ..... is a measuring tool of weight.

- 2 If the weight of an object on the Earth's surface is 60 Newton, then its weight on the moon's surface is .....

- 3** All the following substances are good conductors of heat except .....

- 4 Heat transfers from .....

- (B) Give a reason for the following:**

Handles of cooking utensils are made of wood or plastic.

1 Wood is a ..... conductor of heat, while iron is a ..... conductor of heat.

- 2** ..... is the degree of hotness or coldness of a body.

- 3** The measurement unit of mass is ....., whereas the measurement unit of weight is .....

- 4 When the distance between an object and the Earth's center increases, its weight .....

**(B) Mention the uses of the following:**

Heat energy.



## Model (2)

**10**  
Marks

**1 (A) Choose the correct answer:**

- 1 If the weight of a person in a balloon on a certain height from the Earth equals 60 N, then what is the weight of the person on the Earth's surface? ..... N.
  - a) 55
  - b) 60
  - c) 62
  - d) 58
- 2 Scientists classify the materials into .....
  - a) heat insulators only
  - b) heat conductors only
  - c) (a) and (b)
  - d) heat conductors and metals
- 3 The best metal in conducting heat is .....
  - a) aluminum
  - b) iron
  - c) copper
  - d) rubber
- 4 Newton is equal to the weight of a body, its mass is .....
  - a) 10 gm
  - b) 100 gm
  - c) 1000 gm
  - d) 10000 gm

**(B) What is meant by?**

Wood is a heat conductor.

**2 (A) Put (✓) or (X) and correct the false ones:**

- 1 The mass of an object depends on the mass of the planet. ( )
- 2 Cooking pots and kettles are made up of plastic. ( )
- 3 The mass of a body changes by changing the place. ( )
- 4 Plastic and paper are good conductors of heat. ( )

**(B) When do we say ...?**

The objects on the Earth have no weight.



## Model (3)

10  
Marks

### 1 (A) Complete the following sentences:

- 1 Copper conducts heat ..... than iron
- 2 If the mass of an object on the moon's surface equals 10 kg, then its mass on the Earth's surface equals ..... kg.
- 3 The sensitive two-arm scale is used in measuring small masses as ..... and.....
- 4 Heat is a form of ..... and can be measured by using .....

### (B) What happens if ...?

The mass of an object increases.

.....

### 2 (A) Correct the underlined words:

- 1 Heat conductors are the materials that don't allow heat to flow through. (.....)
- 2 Weight is the amount of matter in an object. (.....)
- 3 Thermometer is an indicator that helps us to express the state of a body from the point of hotness and coldness. (.....)
- 4 Sensitive two-arm balance is used to measure the mass of fruits. (.....)

### (B) What would happen in the following case?

Two bodies have the same temperature touch each other.

.....



## Model (1)

10  
Marks

### 1 (A) Choose the correct answer:

- 1 ..... is a measuring tool of weight.  
a) Sensitive balance  
b) **Spring scale**  
c) Thermometer  
d) Two-pan balance
- 2 If the weight of an object on the Earth's surface is 60 Newton, then its weight on the moon's surface is .....  
a) 60 Newton  
b) **10 Newton**  
c) 6 Newton  
d) 100 Newton
- 3 All the following substances are good conductors of heat except .....  
a) iron and copper  
b) copper and aluminum  
c) **glass and wood**  
d) iron and aluminum
- 4 Heat transfers from .....  
a) **a hot object to a cold one**  
b) a cold object to a hot one  
c) a heat conductor to a heat insulator  
d) a heat insulator to a heat conductor

### (B) Give a reason for the following:

Handles of cooking utensils are made of wood or plastic.

**Because they are bad conductors of heat.**

### 2 (A) Complete the following sentences:

- 1 Wood is a .....**bad**..... conductor of heat, while iron is a .....**good**..... conductor of heat.
- 2 .....**Temperature**..... is the degree of hotness or coldness of a body.
- 3 The measurement unit of mass is .....**kilogram**,..... whereas the measurement unit of weight is .....**Newton**.....
- 4 When the distance between an object and the Earth's center increases, its weight ...**decreases**...

### (B) Mention the uses of the following:

Heat energy.

**Warming houses - cooking food - food industry.**



**10**  
Marks

1 If the weight of a person in a balloon on a certain height from the Earth equals 60 N, then what is the weight of the person on the Earth's surface? ..... N.

- a) 10 gm      b) 100 gm
- c) 1000 gm      d) 10000 gm



## Model (3)

10  
Marks

### 1 (A) Complete the following sentences:

- 1 Copper conducts heat .....faster..... than iron
- 2 If the mass of an object on the moon's surface equals 10 kg, then its mass on the Earth's surface equals .....10..... kg.
- 3 The sensitive two-arm scale is used in measuring small masses as .....jewelry ..... and .....chemical materials.....
- 4 Heat is a form of ....energy.... and can be measured by using ....thermometer....

### (B) What happens if ...?

The mass of an object increases.

The weight of this object increases.

### 2 (A) Correct the underlined words:

- 1 Heat conductors are the materials that don't allow heat to flow through. (Heat insulator)
- 2 Weight is the amount of matter in an object. (Mass)
- 3 Thermometer is an indicator that helps us to express the state of a body from the point of hotness and coldness. (Temperature)
- 4 Sensitive two-arm balance is used to measure the mass of fruits. (Balance scale)

### (B) What would happen in the following case?

Two bodies have the same temperature touch each other.

The heat energy doesn't transfer between the two objects.

## Test

1

Total mark

10

(5 marks)

### Question 1

#### A Put (✓) or (X) :

- 1 Sensitive two-arms scale is used to measure small masses as gold and vegetables. ( )
- 2 Copper is a good conductor of heat. ( )
- 3 The scale of the medical thermometer starts from  $37^{\circ}\text{C}$  to  $42^{\circ}\text{C}$  ( )
- 4 The boiling point of water is  $100^{\circ}\text{C}$  ( )

#### B Give a reason for :

The force of the Earth's gravity is more than the moon's gravity.

.....

### Question 2

(5 marks)

#### A Choose the correct answer :

- 1 The mass of half liter of water equals ..... grams.  
 (a) 5 (b) 50 (c) 500 (d) 5000
- 2 Which of the following is the fastest in conducting heat ? .....  
 (a) Copper. (b) Iron.  
 (c) Aluminium. (d) Gold.
- 3 The used liquid in the celsius thermometer is .....  
 (a) alcohol. (b) mercury. (c) water. (d) milk.
- 4 The lower fixed point in the celsius thermometer is .....  $^{\circ}\text{C}$   
 (a) 100 (b) 42 (c) 37 (d) 0

#### B Problem :

An object's mass = 60 kg. on the Earth's surface, calculate :

- 1 Its weight on the Earth : .....
- 2 Its weight on the moon : .....



## Test

2

Total mark

10

## Question

1

(5 marks)

**A Write the scientific term of each of the following :**

- 1 The amount of matter in an object. (.....)
- 2 The degree of hotness or coldness of a body. (.....)
- 3 Materials that do not let heat flow through. (.....)
- 4 A device used to measure the temperature of liquids. (.....)

**B What happens if ... ?**

Two bodies have the same temperature touch each other.

.....

## Question

2

(5 marks)

**A Correct the underlined word :**

- 1 Mass is the gravitational force by which a body is attracted to the Earth. (.....)
- 2 Materials that conduct heat are called heat insulators. (.....)
- 3 The boiling point of water is  $0^{\circ}\text{C}$ . (.....)
- 4 An object whose weight is 40 Newton on Earth, so its mass equals 400 kg. (.....)

**B Problem :**

If the object's mass = 600 gm. on the Earth's surface, calculate :

- 1 Its weight on the Earth : .....
- 2 Its weight on the moon : .....



## Answers of Test

1

### Question

1

A 1 x

2 ✓

3 x

4 ✓

B Because the mass of the Earth is more than the mass of the moon.

### Question

2

A 1 (c)

2 (a)

3 (b)

4 (d)

B 1 The object's weight on the Earth = Its mass  $\times 10 = 60 \times 10 = 600$  Newton.

2 The object's weight on the moon = Its weight on the Earth  $\times \frac{1}{6}$   
 $= 600 \times \frac{1}{6} = 100$  Newton.

## Answers of Test

2

### Question

1

A 1 Mass.

2 Temperature.

3 Heat insulators.

4 Celsius thermometer.

B Heat will not transfer from one body to the other.

### Question

2

A 1 Weight

2 conductors.

3 freezing

4 4

B 1 The object's weight on the Earth = Its mass  $\times 10 = \frac{600}{1000} \times 10 = 6$  Newton.

2 The object's weight on the moon = Its weight on the Earth  $\times \frac{1}{6}$   
 $= 6 \times \frac{1}{6} = 1$  Newton.



Work sheetLesson 1:-Mass and weight1-Write the scientific term:

- 1- The amount of matter in an object . ( ..... )
- 2-The measuring unit of mass which equal the mass of one liter of water . (..... )
- 3-Aforce with which a body is attracted to the earth . (..... )
- 4- Mass  $\times$  10 . (..... )
- 5- Weight / 10 . (..... )
- 6 – The measuring unit of weight that is almost equal to the weight of an object whose mass is 100 grams . (.....)

2-Give reason for :

- 1- The book has mass .  
.....
- 2- The weight of a bag in a balloon is smaller than that on earth.  
.....
- 3- The weight of a person on the earth's surface is larger than that on moon's surface.  
.....
- 4- Object 's falling downward earth .  
.....
- 5- The balance scale should be placed horizontally on a stable shelf.  
.....



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3-Compare between sensitive two –arms scales and spring scales:

Comparison	sensitive scale	Spring scale

4-What's meant by ?

- 1- Mass: .....
- 2- Gram: .....
- 3- Weight: .....
- 4-Newton: .....
- 5- Kilogram: .....



1-If an object its mass = 30 kg on earth, calculate .

a) Its mass on the moon

.....

b) Its weight on the earth

.....

c) Its weight on the moon

.....

2- An object whose mass on earth is equal to 3kg . Calculate its weight on both surface of the earth and moon .

.....

.....

.....



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3- An object whose weight is 20 Newton on earth ,calculate its mass on the earth and moon.

.....

.....

.....

4- Calculate the weight of a book in the moon 's surface ,where its weight on the earth 's surface is 3 Newton.

.....

.....

.....

5- Calculate the mass of a cat whose weight is 50 Newton .

.....

.....

.....



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# Work sheet

## Unit two:- Thermal energy

### Lesson one: Heat conduction

#### 1-Complete the following:-

- 1-.....and.....  
are from the importance of heat in our daily life .
- 2-.....is a good conductor of heat while air is .....
- 3-Mterials are divided into .....conductors and .....
- 4-We measure the temperature by using .....
- 5-All metals are .....conductors of heat.
- 6-.....and  
.....are some usages of bad heat conductors.
- 7-.....is the degree of hotness and coldness.
- 8-.....is a form of energy.
- 9-.....and.....are bad  
conductors of heat.
- 10-.....and.....ar  
e good conductors of heat.

#### 2-Put ( ☐ ) or ( ☐ )

- 1-Copper is a good conductor of heat. ( ☐ )
- 2-Cooking pots are made of wood. ( ☐ )
- 3-Aluminium is a poor conductor of heat. ( ☐ )
- 4-The measuring device of temperature are scales. ( ☐ )
- 5-Handles of cooking pots are made of plastic. ( ☐ )
- 6-The degree of hotness or coldness is temperature. ( ☐ )
- 7-Some materials are good conductors of heat. ( ☐ )



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8-Insulators are used in making heavy blankets and woolen clothes. ( )

9-The Celsius thermometer is used for measuring the temperature of human being.( )

10-We can measure the temperature accurately by touching. ( )

**3-Compare between good conductor of heat and bad conductors of heat:-**

Items	Good conductors	Bad conductors
Definition		
Examples		



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## Work sheet

## Lesson 2:-Measuring temperature

**1-Write the scientific term :-**

- 1-A device used to measure the temperature of the atmosphere . (.....)
- 2- A device used to measure the temperature of the human being.(.....)
- 3-The liquid used in making thermometers. ( .....)
- 4-A device used in measuring the temperature of liquids . (.....)
- 5- A tool used to measure human body temperature . (.....)
- 6- The liquid that is used in sterilizing the medical thermometer . (.....)
- 7-The melting point of ice .(.....)
- 8- The boiling point of water .(.....)
- 9- The part of medical thermometer that prevents mercury from going back to the bulb .(.....)
- 10-A liquid metal is regular expanding and doesn't stick to the wall of thermometer . (.....)

**2-Give reason (write an explanation )**

- 1-Mercury is used in thermometer .

.....

.....

.....

- 2-In the clinical thermometer there is a constriction in the capillary tube .

.....

- 3-We must shake the medical thermometer well before using .

.....



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4-The mercury gives wide range to measure the temperature .

.....

5-The medical thermometer is damaged when its put in boiling water.

.....

**3-What is meant by:-**

1-Heat: - .....

2-Temperature: - .....

**4-Write one function:-**

1-Medical thermometer.....

2- Celsius thermometer.....

3- Constriction.....

4-Mercury.....



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# 1-WEIGHT – MASS

## **Q Complete:-..**

- 1-The .....is the measurement unit of mass ,the ..... is the measurement unit of weight.
- 2-The mass is measured by ..... unit ,and the weight is measured by .....unit.
- 3-The mass is measured by .....and the weight is measured by .....
- 4-The factors affect the weight of the body depend on .....,....., ..... and .....
- 5-The weight of the body on moon surface equal .....of its weight on earth's surface.
- 6-The weight of the body on earth surface increase as the .....increase
- 7-As the mass of the planet on which the body exist, the .....of the planet increases and .....of body increase.
- 8-The weight is .....
- 9-The instrument which in the measuring mass is .....,while the instrument which in the measuring weight is .....
- 10-The attraction force of earth for a body is called .....and it increases as .....increase.
- 11-The weight of the body is measured by ..... balance.

## **Q Choose the correct answer :-**

- 1-The mass of half liter of water equal :- (5 gm – 50 gm – 500 gm– 5000 gm)
- 2-Newton equals the weight of an object whose mass is .... Gram  
(1-20-100-1000)



📖 3-.....is the measuring device of weight

(spring scale – balance scale – one arm scale)

📖 4-If the weight of a body is 20 Newton , its mass equals.....

( 2 kg - 20kg – 200 kg – 2000 kg)

📖 5-The weight of an object on the .....planet equals 6 times its weight on the moon's surface ( mars – earth – Jupiter)

📖 6-The weight of the body on earth surface 6 Newton , so its weight on moon surface equals ( 1 kg – 1 Newton – 6 kg – 6 Newton)

📖 7-From the measuring unit of weight

( Gram – litre – Newton – Kilogram)

📖 8-The weight of the body is measured by ...balance

( spring – double pan – sensitive – all the previous)

📖 9-The weight of a body its mass 200 gm on earth nearly equal .....  
Newton ( 2 – 20 – 200 – 2000)

📖 10-The planet on which the body weight equals 6 times as its weight on the moon is ( mars -earth- Jupiter)

📖 11-The weight (newton) = the mass (kilogram)×..... ( 10 – 100 – 1000)

📖 12-The mass of a body on the moon surface is 10 kg , so its mass on earth surface equal :( 10 kg - 10 Newton – 60 Newton – 60 kg)

📖 13-From the tools of measuring weight ( kilogram – double pan balance – Newton – spring balance )



📖 14-The Newton is nearly equals weight of a body its mass : ( 1 gm – 10 gm – 100gm – 1000 gm)

📖 15-Your weight on earth surface is 600 Newton so your weight on moon surface is .....Newton ( 6 – 600 -60 – 100 -10 )

### **Q Write S-term :-**

📖 1-A device used to measure the mass of objects

📖 2-A tool used to measure body weight

📖 3-The amount of matter that the body contains

📖 4-The attraction force of earth to the body

📖 5-The amount of matter in an object

📖 6-The amount of earth gravity to the bodies

**Q Define :-** 📖 1-Mass     📖 2-Weight

### **Q Mention the function of or what is the importance of the following:-**

📖 1-Spring balance     📖 2-Two arm balanced scale     📖 3-Earth gravity

### **Q Correct the following statements or rewrite the following sentences after correcting: :-**

📖 1-The weight is constant amount changes as the location changes

📖 2-The mass of a body on earth surface equal 6 kgs , so its mass on moon surface equal 1 kg

📖 3-The mass of one liter of distilled water equal 100 gm

📖 4-As the mass of the planet increases the weight of body on it decreases

📖 5-The weight of any object can be measured by the balance scale

📖 6-The mass is measured by newton which is equivalent to 1000 gram



📖 7-As the weight of planet increase the weight of body on it decreases

**Q Give reason :-or what is the scientific reason:-**

\*\*📖 1-The balance scale must be on horizontal stable surface

📖 2-The force of the moon's gravity is less than the earth's gravity.

\*\*📖 3-The weight of any body is different as the planets differ

📖 4-The weight of the body on earth's surface more than its weight on moon's surface

\*\*📖 5-The bodied always fall down towards earth

\*\*📖 6-The wire of spring balance expands when a body is hanged to it

📖 7-The weight of the body on earth's surface differs from its weight on another planet

📖 8-The weight of the body on certain planet differs as the planet differs

\*\*📖 9-The force moon's gravity is less than that of earth's gravity

📖 10-the body weight in a balloon is different from its weight on earth's surface

**Q what happen if or what would happen in the following cases:-**

📖 1-There is no earth gravity

📖 **Compare between** :- balance scale-spring scale

📖 **Write one difference between** Mass and weight

نفس السؤال 📖📖 **Compare between** :-Mass and weight



- 📖 1-A piece of rock is placed in a pan of double pans balance, the sum of masses which are placed in the other pan is 300 gm to make balance
- a) What is the mass of the piece of rock ? what the direction of the effect of this mass?
- b) What is the weight of the piece of rock ? what the direction of the effect of this weight ?
- c) What is the effect of changing the place on both mass and weight of the rock piece
- 📖 2-A body its mass 10 kg .calculate its weight of on earth surface
- 📖 3-A body its mass 6 kgm , calculate its weight of on earth surface and also calculate its weight on moon surface
- 📖 4-Calculate the mass of a body its weight 300 Newton
- 📖 5-The mass of an object on earth's surface equal 60 kgm , calculate its weight on moon's surface , given that moon's gravity equals  $\frac{1}{6}$  of earth's gravity



## 2-HEAT CONDUCTION

### **Q Complete:-..**

- 1-The heat is a form of the .....
- 2-The temperature is considered as an indicator that helps us to express .....and .....of the body
- 3-We measure temperature by using .....
- 4-..... , .....and ..... are good conductor of heat
- 5-..... , .....and .....are bad conductor of heat
- 6-All metals are ..... conductors of heat
- 7-.....conduct heat faster than aluminium
- 8-.....and .....are some usage of good conductors
- 9-....., .....and .....are some usage of bad conductors
- 10-From the examples of substances which are good conductors of heat .....and .....
- 11-From the examples of substances which are bad conductor of heat ..... and .....
- 12-The holder of cooking pans is made of .....or .....
- 13-The good conductor substances are the substances which .....as .....
- 14-The bad conductor substances are the substances which .....as .....



### **Q Choose the correct answer:-**

📖 1-All the following from substances which are good conductors of heat except ( Aluminum and iron – copper and iron -glass and wood-Aluminum and copper)

📖 2-.....is from the bad heat conductor substances.

( copper – iron- wood)

📖 3-Which of the following is faster in conducting heat ( aluminium – iron – copper – glass)

📖 4-The best metal in conducting heat is ...( aluminum – copper – iron – wood)

📖 5-Which of the following metals in more heat conductor?

( aluminum – copper – iron)

📖 6-From the substances which are bad conductor of heat ( iron and aluminium – copper and glass – glass and wood – aluminium and copper )

### **Q Write S-term :-**

📖 1-Materials that let heat flow through

📖 2-The substances that allow heat to pass through

📖 3-The substance that not allow heat to pass through

📖 4-The materials that don't let heat flow through

📖 5-An indicator helps us to express the state of the body from the point of hotness and coldness

### **Q Define:-**

📖 1-Heat

📖 2-Temperature

📖 3-The good heat conductor substances📖 heat conductor



📖 4-The bad heat conductor substances📖 heat insulator

**Q Mention the function of or what is the importance of the following (usage of):- or What is the main use of :-**

📖📖 1-Plastic in the manufacture of the handles of cooking utensils

📖 2-The plastic handles of cooking pots

📖 3- good conductors of heat

📖 4- bad conductors heat insulator

**Q put ✓ or ✗ :-**

📖 1-heat transfer from cold object to hot object

📖 2-All materials are good conductors of heat

📖 3-Aluminium is bad conductor of heat

📖 4-the different metals transfer heat by the same rate

📖 5-Aluminium conducts heat faster than copper

📖 6-Cooking pots are made of plastic

📖 7-Handles of cooking pots are made of copper .

📖 8-wood is a good conductor of heat .

**Q Correct the following statements or rewrite the following sentences after correcting:-**

📖 1-Copper from substances which the heat cannot pass through it



📖 2-The different metals transfer heat by the same rate.






### **Q Give reason :-or what is the scientific reason:-**

**\*\***1-wood is considered as a heat insulators ,while copper is a heat conductor

  2-Plastic is different from copper in conducting heat

**\*\***  3-Cooking pots are made of aluminum while its handles are made of plastic or wood

  4-The handles of cooking pots are made of wood or plastic while the cooking pots are made of aluminum



 5-Copper is consider from good conductor of heat while wood is consider from bad conductor of heat

  6-Aluminum is used in manufacturing of cooking pans

**\*\*** 7-The copper conduct heat faster than aluminum

### **Q what happen if or what would happen in the following cases:-**

 1-All substances that the man uses are good conductor of heat

  **Compare between** :-Bad heat conductor substances and good heat conductors substances.

### **Join**

(A)	(B)
a. Copper b. Plastic c. Mercury d. Alcohol	1- Is bad conductor of heat 2- Is good conductor of heat 3- Is a liquid used in manufacture of thermometers 4- Is a liquid used in sterilizing of thermometers before usage



# Unit ( one \ two ) revision questions

## Question (1) Complete the following:

- 1- The measuring units of mass are .....and ..... while the measuring unit of the weight is .....
- 2- All ..... are good conductors of heat.
- 3- The factors that affect the weight are ..... , ..... and.....
- 4- Weight is .....
- 5- Handles of the cooking pots are made up of ..... because it is .....
- 6- Mass doesn't has ..... but weight has it , which directs to .....
- 7- ..... , ..... and ..... are bad conductors of heat.
- 8- The measuring devices of mass are ..... or ..... but the device that is used to measure the weight is .....
- 9- ..... , ..... and ..... are good conductors of heat.
- 10- ..... is faster than aluminum in conducting of heat.
- 11- Mass is defined as .....
- 12- Weight of any object on the moon = ..... the weight on Earth.
- 13- Heat is used in different things at home such as ..... , ..... and.....
- 14- There is ..... between the two slides of the glass windows because it is ..... of heat.
- 15- Mass depends on the ..... of the matter.
- 16- Mass is .....
- 17- Kg = .....gm = ..... liter of distilled water
- 18- Gram is the unit of measuring of ..... and it equals the mass of .....
- 19- ..... balance is used to measure small masses.
- 20- ..... and..... are from types of balances.
- 21- When the mass of an object increases, so the ..... which needs to move it increases.
- 22- The choice of the balance depends on the ..... of the matter.



- 23- Mass doesn't change by the changing of the .....
- 24- Mass is measured by using ..... and its units is .....
- 25- There is a force that attracts objects toward Earth, it is called  
.....
- 26- One Newton = the mass of a body its mass = .....gram.
- 27- Half Newton = the mass of a body its mass = .....gram.
- 28- Two Newton = the mass of a body its mass = .....gram.
- 29- The attraction force which applied for an apple its mass 100 gm = ..... N
- 30- The attraction force which applied for an apple its mass 300 gm = ..... N
- 31- ..... is used to determine the weight.
- 32- The factors that affecting the weight are ....., .....  
and .....
- 33- The weight of an object on Earth's surface ..... by the increasing  
of its mass, and ..... by the decreasing of it.
- 34- Weight (Newton) = .....  $\times$  .....
- 35- When the mass of the planet ..... Its weight .....
- 36- Weight of an object on Moon = ..... weight of it on Earth.
- 37- An object's weight on the Earth's surface is 100 Newton, so its weight on  
moon's surface = .....
- 38- The weight of anybody ..... by faring away from the planet and  
..... by coming closer to it.
- 39- The weight of a body in the balloon ..... than its weight on  
Earth.
- 40- The weight of a man under the earth is ..... than his weight above a  
mountain.
- 41- As we go away from Earth's surface, our weight .....
- 42- the unit of measuring the weight is ..... and it is measured by using  
.....
- 43- Heat energy is used at homes in ..... and .....
- 44- Heat energy is used in industry in ..... and .....
- 45- Heat is a form of ..... it transfer from body with .....  
temperature to body with ..... temperature.
- 46- The ..... is a degree of ..... or ..... Of the  
body.
- 47- ..... is used to measure the temperature of the bodies.
- 48- Materials are ..... In their ..... Of heat.
- 49- Heat transfers from ..... temperature to ..... temperature.
- 50- The materials are divided ..... or ..... From  
ability to conduct the heat.



- 51- ..... and .....are examples of heat conductors while ..... And..... are examples of heat insulators(Bad conductors).
- 52- The materials that allow heat to flow through are called .....
- 53- The materials that don't let heat flow through are called .....
- 54- Air is ..... conductor of heat.
- 55- Copper conducts heat ..... than aluminum.
- 56- A ..... are left between the railway bars to avoid.....
- 57- ..... , ..... And ..... are used in making the utensils.
- 58- ..... And..... are used in making the handles of cooking pots .
- 59- ..... is used in making the iron handle because it is ..... Conductor of heat.
- 60- The heavy blankets and the woolen clothes are used in ..... Because they are ..... conductors of heat.
- 61- All ..... Are .....conductors of heat.
- 62- Heat conductors are used in .....
- 63- Heat insulators are used in .....
- 64- The human temperature is measured with .....
- 65- The graduation of the medical thermometer starts from .....to .....
- 66- There is a constriction in the medical thermometer to .....
- 67- The use of medical thermometer is ..... While that of Celsius thermometer is .....
- 68- ..... and..... are from the two types of thermometers.
- 69- Thermometer is .....
- 70- The ..... thermometer is used in measuring the human body temperature , while ..... thermometer is used to measure the liquid temperature.
- 71- The idea of thermometer operation is changing the ..... of the liquid inside it by the changing of the .....
- 72- The medical thermometer contains ..... That prevents the liquid from returning back to the bulb.
- 73- The temperature of the normal body is .....
- 74- You should ..... the medical thermometer before using it.
- 75- The medical thermometer sterilized by using ..... before using.
- 76- Mercury has.....color, and it is a ..... conductor of electricity.



- 77- The degree of the liquid thermometer starts from ..... to .....
- 78- The boiling point of water is ,while its melting point is .....
- 79- When you touch an ice piece , you feel ..... due to the transfer of heat from ..... to .....
- 80- When you touch hot tea, you feel ..... due to the transfer of heat from ..... to .....
- 81- The handles of cooking pots are made up of .....
- 82- ..... and.....are examples of the insulators.
- 83- .....and.....are examples of the conductors.
- 84- The cooking utensils are made up of aluminum because it is .....
- 85- The heavy clothes are .....conductors of heat.
- 86- .....conducts heat faster than ..... and iron.

## **Question (2) Give reason for each of the following:**

- 1- There are gabs between the railway bars.  
.....
- 2- We wear the heavy clothes in winter.  
.....
- 3- The mass of a body on the Earth is equal to its mass on moon.  
.....
- 4- Weight of an object on moon equals ( $1 \div 6$ ) of its weight on Earth.  
.....
- 5- Plastic is used to make the handles of the iron utensils.  
.....
- 6- Cooking utensils are made up of the aluminum.  
.....
- 7- In cold countries , the windows are made of two sheets contains air.  
.....
- 8- The importance of heat.  
.....
- 9- The presence of constriction in the medical thermometer.  
.....
- 10- You shouldn't press on the medical thermometer with your teeth.  
.....
- 11- Mercury is used in manufacturing of thermometers.



.....  
12- Medical thermometer is not used in the measurement of liquids temperature.

.....  
13- The degree of medical thermometers ranges between  $35^{\circ}\text{C}$  and  $42^{\circ}\text{C}$ .

.....  
14- The medical thermometer is shaking before using.

.....  
15- Heat is one of the most important energy that we use in our daily life.

.....  
16- Heat has an important factor in the industry.

.....  
17- There are spaces between the railway's bars.

.....  
18- There is a space left between the sheets of the windows in the cold countries.

.....  
19- Aluminum is used in manufacturing of cooking utensils.

.....  
20- Wood is used in manufacturing of the handles of cooking pots.

.....  
21- We wear the wool clothes in winter.

.....  
22- We use plastic in manufacturing the handles of iron.

.....  
23- Mass of 10 bananas is equal to mass of 2 oranges.

.....  
24- The mass of an object on moon = its mass on Earth.

.....  
25- The astronauts appear as swimmer in the space.

.....  
26- The effect of the gravity doesn't appear in the spacecraft.

.....  
27- The weight of 3Kg mass object larger than the weight of 1Kg object.

28- Weight is different from planet to another.

29- Weight on moon is smaller than weight on Earth.

30- Weight on Earth is larger than weight in airplane.

**Question (3) Write the scientific term:**

1- The amount of matter in the object. (.....)

2- The materials that let heat flow through. (.....)

3- The windows that made of two glass sheets contain air.  
(.....)

4- The increasing of the liquid volume by heating. (.....)

5- The fastest metal in heat conducting. (.....)

6- The materials that don't let heat flow through. (.....)

7- The measuring unit of mass which equals = 1 liter.  
(.....)

8- The force with which the body is attracted to the Earth.  
(.....)

9- The measuring unit of weight which = 100gm. (.....)

10- The measuring device of weight. (.....)

11- A space body, its attraction force ( $1 \div 6$ ) from the Earth's gravity.  
(.....)

12- Anything has mass. (.....)

13- The measuring unit of mass that equals to 1000 gm.  
(.....)

14- The measuring unit of mass that equals to the paper clip mass.  
(.....)

15- A scale that is used to measure the small masses.  
(.....)

16- A scale that is used to measure the masses of vegetables and fruits.  
(.....)

17- A device that is used in measuring the temperature.  
(.....)

18- A device that is used in measuring the temperature of liquids.  
(.....)

19- A device used to measure the temperature of Human.  
(.....)

20- The thermometric substance that is used in thermometers.



(.....)

21- The modern thermometer in which the temperature appears as numbers. (.....)

22- The liquid that is used in sterilizing of thermometers. (.....)

23- The boiling point of water. (.....)

24- The melting point of ice. (.....)

25- A form of energy that transfer between two different body temperature. (.....)

26- The degree of hotness or coldness of the body. (.....)

27- A device used to measure the temperature. (.....)

---

**Question (4) Put (√) or (×) and correct the false ones:**

1- All materials are good conductors of heat. ( )

2- Glass is bad conductor of heat. ( )

3- Weight increases as the object becomes far from the center of the Earth. ( )

4- Mass differs according to the planet where the object exist. ( )

5- Aluminum and copper are used in the iron and utensils. ( )

6- Aluminum is faster in conducting heat than iron. ( )

7- Air is a good conductor of heat. ( )

8- Two arm scales is used in human body measurement. ( )

9- Weight of the object increases as its mass increases. ( )

10- Mass differs from place to another. ( )

11- Celsius thermometer is used in measuring the human temperature. ( )

12- Celsius thermometer graduation starts from zero to 100. ( )

13- Medical thermometer is used in measuring the liquid temperature. ( )

14- There is a constriction in the Celsius thermometers. ( )

15- The thermometric liquid is water. ( )

16- Medical thermometer graduation starts from 35 to 42. ( )

17- Alcohol is the liquid which used in the medical thermometers. ( )

18- All materials are good heat conductors. ( )

19- Wood is one of the good heat conductors. ( )

20- Boilers and utensils are made of plastic. ( )

21- Handles of utensils are made up of copper. ( )

22- Aluminum is one of the bad conductors. ( )

23- Copper is slower in conduction the heat than iron. ( )

- 24- Heat indicates to the hotness or coldness. ( )
- 25- Barometer is used in temperature measurements. ( )
- 26- Heat transfer from hot to cold bodies. ( )
- 27- Copper doesn't let heat flow through it . ( )
- 28- Weight depends on the amount of matter inside the objects. ( )
- 29- Mass of the gold can be measured by using two arm scales. ( )
- 30- The force that needs to move an object increases as its mass increases. ( )
- 31- One Kg = 100 gm. ( )
- 32- Mass of an object is the reason of the falling of objects. ( )
- 33- Mass unit is Cm and it = the mass of one paper clip. ( )
- 34- Weight is the force that attracts objects towards Earth. ( )
- 35- The gravitational force that affects on 200 gm apple = 1 Newton. ( )
- 36- Weight is measured with two arm scale. ( )
- 37- Mass of an object is one of the factors that affect its weight. ( )
- 38- As the mass of an object increases, its weight decreases. ( )
- 39- Weight = Mass  $\times$  10. ( )
- 40- Weight on moon = weight on Earth. ( )
- 41- Mass of Earth is larger than mass of moon. ( )
- 42- As the mass of a planet increases, its gravitational force decreases. ( )
- 43- Weight of an object on moon = 6 times its weight on Earth. ( )
- 44- As the distance away from Earth's center increases, the weight decreases. ( )
- 45- Weight is constant and doesn't change from place to another. ( )

### **Question (5) Choose the correct answer:**

- 1- The mass of two paper clip = (1 -2 -3 -4) gm.
- 2- (Mass – weight – length) is the amount of matter in an object.
- 3- (Sensitive scale – arm scale – digital scale) is used to measure the mass of chemicals.
- 4- (Mass – weight – volume) depends on the amount of matter.
- 5- Masses of an objects at the balancing (more than – equal – smaller than) all the masses on the other arm.
- 6- Mass is (constant – changeable – renewable) value.
- 7- Mass of an object (decreases – increases – don't change) by the changing of the place.



- 8- 2 Kg = ( 2 – 3 – 1 ) liter of distilled water.
- 9- Half Kg = (50 – 5 – 500 – 5000 ) gm.
- 10- Mass (affects upward – affects downward – have no direction)
- 11- The mass of an object on the moon = 10 Kg, so its mass on the Earth = (Zero Kg – 10 N. – 60 Kg. – 60 N.)
- 12- Weight always affects to (the sky – center of the Earth – pole of the Earth)
- 13- Weight is measured by the (spring – two arms – balance) scale.
- 14- As the mass of an object increase, its weight (increases – decreases – doesn't change)
- 15- As the mass of the planet (increases – decreases – don't change) , the weight of the object on it decreases.
- 16- Weight on the moon = (  $\frac{1}{4}$  – the same –  $\frac{1}{6}$  ) its weight on Earth.
- 17- As the distance from the center of Earth decreases, the weight ( increases – decreases – don't change)
- 18- If the weight of a body in a balloon is 70 N. , the weight of the same person on the Earth is ( 68 – 69 – 70 – 71 ).
- 19- Newton equals nearly the weight of a body its mass = ( 100 – 1000 – 1 – 10 ) gm.
- 20- The weight of a body its mass 200 gm on the Earth = ( 2 – 200 – 20 – 2000)
- 21- ( Kg – N – balance scale – spring scale ) is one of the devices to measure the weight.
- 22- If the weight of an object is 20 N. so its mass = ( 2 – 20 – 200 – 2000) Kg.
- 23- Weight is measures with ( Gm – liter – Newton – Kg.)
- 24- We feel coldness when ( lose heat – gain heat – touch hot cup)
- 25- We feel hotness when ( lose heat – gain heat – touch cold cup)
- 26- We feel hotness when (heat transfer to the body –heat transfer from body – touch cold cup)
- 27- We feel coldness when (heat transfer to the body –heat transfer from body – touch cold cup)
- 28- Heat transfer from the hot body to the ( upper – cold – lower – hot ) body.
- 29- A metal ball its volume =  $3\text{cm}^3$  , after heating its volume becomes(  $1\text{cm}^3$  –  $4\text{cm}^3$  –  $3\text{cm}^3$  –  $2\text{cm}^3$ )

- 30- All the following are used in the manufacturing of cooking utensils except ( iron – aluminum – copper – wood)
- 31- Temperature is measured by ( sensitive balance – cylinder – thermometer – ruler)
- 32- Heat transfer from a body of 35 to that of (32 – 35 – 38 – 39)
- 33- ( Wood – iron – plastic – glass ) is one of the heat conductors.
- 34- ( Aluminum – iron – wood – copper) is one of the heat insulators)
- 35- Handles of cooking pots are made up of ( copper – plastic – steel – aluminum)
- 36- One of the following is an example for the heat insulator , it is ( Iron – copper – wood – aluminum )
- 37- Heavy clothes are wear in the winter because it is ( heat insulators – good conductors – heat protectors)
- 38- Tea boilers and cooking utensils are made up of (( heat insulators – good conductors – heat protectors).
- 39- ( Heat – water – electricity ) is one of the most important form of energy that we use in our daily life.
- 40- ( Paper – textiles – glass – all the previous ) are \is the industry that we use heat in it\them
- 41- (Temperature – heat – thermometer) is the degree of hotness or coldness.
- 42- ( Thermometer – heat – temperature ) is the device that used to measure the temperature.
- 43- ( Heat conductors – heat insulators – solids) are from the materials that allow heat to flow through.
- 44- ( Heat conductors – heat insulators – solids) are from the materials that don't allow heat to flow through.
- 45- Air and all gases are ( good – bad – both of them ) conductor of heat.
- 46- The best metal in heat conductors is ( aluminum – iron – copper )
- 47- The idea of making thermometers is :
- a- Changing the gas volume with the changing of temperature.
  - b- Changing the liquid volume with the changing of temperature.
  - c- Changing mass of gases with the changing of temperature.
  - d- Changing mass of liquids with the changing of temperature.
- 48- Medical thermometer differs from Celsius in :



- a- The type of liquid in the bulb.
  - b- The presence of constriction
  - c- The material that made up of
  - d- The effect of heat on the liquid
- 49- All the following is the properties of mercury as a thermometric liquid except :
- a- Good heat conductor
  - b- Regular expanded material
  - c- Doesn't stick with glass walls
  - d- Given the limited extent to measure temperature
- 50- The degree of the medical thermometer ranges between :
- a-  $35 - 42^{\circ} \text{C}$
  - b-  $35 - 45^{\circ} \text{C}$
  - c-  $32 - 42^{\circ} \text{C}$
  - d-  $32 - 45^{\circ} \text{C}$
- 51- The thermometer which is used in measurement of human temperature is :
- a- Medical thermometer
  - b- Celsius thermometer
  - c- All the previous
- 52- The part in the medical thermometer that prevents the returning of mercury fast to the bulb is called :
- a- Sticker
  - b- Constriction
  - c- Height
- 53- Medical thermometer is sterilizes using (alcohol – hot water – cold water)
- 54- Medical thermometer placed under tongue for ( 1 – 4 – 2 ) minutes.
- 55- it is impossible to depend on the ( thermometer – medical thermometer – hands) in the measurement of temperature.
- 56- Liquids (expands – contracts – decreases in volume) by heating.
- 57- Mercury is (regular – irregular – both of them ) expanded liquid.
- 58- Mercury has (silver – gold – red) color.
- 59- The melting point of water is ( zero – 100 – 200 )  $^{\circ} \text{C}$ .
- 60- The boiling point of water is ( Zero – 100 – 300 )  $^{\circ} \text{C}$ .

61- The graduation of the Celsius thermometer is between (0,100 – 0,200 – both are correct).

---

### **Question (6) Problems:**

1- Calculate the weight of a body, its mass on Earth is 3 Kg.

.....

2- Calculate the mass of a body its weight is 200 N.

.....

3- Calculate the weight on moon for a body its weight on Earth's surface is 60 Kg.

.....

4- A body of mass 50 Kg on moon surface. Calculate:

a- Its weight on Earth.

b- Its weight on moon.

.....

.....

.....

5- A stone is placed on one arm of a scale; the summation of all masses was 300 gm on the other arm:

a- What is the mass of the stone and the direction of this mass

b- What is the weight of this stone and the direction of this weight

c- What is the effect of changing the place for each mass and weight

.....

.....

.....

.....

.....

.....

.....

6- If the mass of a ball on Moon's surface is 50 gm , find the mass on Earth's surface . Give reason for your answer.

.....

.....



7- If the mass of a body equals to 3 paper clips , find the mass of this body.

8- If the mass of a body equals  $1\frac{1}{4}$  liter of water, find the mass of the body.

9- If the weight on Earth is 600 N. calculate its weight on moon.

10- If the weight is 20 N. calculate its mass.

11- An object with mass = 200 gm, calculate its weight.

12- If the mass on Earth is 10 Kg, calculate:

a- Its mass on moon.

b- Its weight on Earth.

c- Its weight on moon.



13- A body of mass 5 Kg. on Earth. Calculate its mass on moon.  
Give reason for your answer.

14- If the mass on moon is 60 Kg. Find its mass on Earth and give reason for your answer.

15- Calculate the weight of an object = 3 Kg. (on Earth).

16- Calculate the mass of an object its weight is 200 Newton.

17- What is the weight of an object on moon, if its weight on Earth is 60 Kg.?

18- If the mass of a body on moon is 60 Kg. Calculate:

a- Its weight on Earth.

b- Its weight on moon.

19- A bag of weight on moon = 10 Newton. Different books have been put in it which has 3Kg mass. Calculate:

a) The mass of the bag with the books on Earth.

b) The weight of the books only on the moons.

### Question (7) Compare between:

a-

<u>Point of comparison</u>	<u>Heat conductors</u>	<u>Heat insulators</u>
Definition		
Usage		

b-

<u>Point of comparison</u>	<u>Mass</u>	<u>Weight</u>
Definition		
Measuring unit		



Measuring devices		
Direction		
Changing by the place		

C-

<u>Point of comparison</u>	<u>Medical thermometer</u>	<u>Celsius thermometer</u>
uses		
Graduation		
Liquid inside		
Presence of constriction		



# October Revision

**Mr. Ahmed Elbasha**

✱ (1) Write the scientific term:

- 1) The amount of matter in the object. (.....)
- 2) The materials that let heat flow through. (.....)
- 3) The fastest metal in heat conducting (.....)
- 4) The materials that don't let heat flow through. (.....)
- 5) The measuring unit of mass which equals = 1 liter of water (.....)
- 6) The force with which the body is attracted to the Earth. (.....)
- 7) The measuring unit of weight which = 100gm. (.....)
- 8) The measuring device of weight. (.....)
- 9) The measuring unit of mass that equals to 1000 gm. (.....)
- 10) The measuring unit of mass that equals to the paper clip mass. (.....)
- 11) A device that is used in measuring the temperature. (.....)
- 12) A device that is used in measuring the temperature of liquids. (.....)
- 13) A device used to measure the temperature of Human. (.....)
- 14) The liquid that is used in sterilizing of thermometers. (.....)



**★(2) Complete the following:**

1. The measuring units of mass are .....and ..... while the measuring unit of the weight is .....
2. ...., ..... and ..... are bad conductors of heat.
3. ...., ..... and ..... are good conductors of heat.
4. .... is faster than aluminum in conducting of heat.
5. Weight of any object on the moon = ..... the weight on Earth.
6. Gram is the unit of measuring of ..... and it equals the mass of .....
7. .... balance is used to measure small masses.
8. Mass doesn't change by the changing of the .....
9. There is a force that attracts objects toward Earth, it is called .....
10. One Newton = the mass of a body its mass = .....gram.
11. Two Newton = the mass of a body its mass = .....gram.
12. The attraction force which applied for an apple its mass 100 gm = ..... N
13. The attraction force which applied for an apple its mass 300 gm = ..... N
14. Weight on earth = ..... × .....
15. An object's weight on the Earth's surface is 600 Newton, so its weight on moon's surface = .....
16. As we go away from Earth's surface, our weight .....
17. The unit of measuring the weight is ..... and it is measured by using .....
18. Heat is a form of ..... it transfer from body with ..... temperature to body with ..... temperature.
19. The ..... is a degree of ..... or ..... Of the body.

- 20..... is used to measure the temperature of the bodies.
- 21.Heat transfers from ..... temperature to ..... temperature.
- 22.The materials are divided ..... or ..... from ability to conduct the heat.
- 23..... and .....are examples of heat conductors while ..... And..... are examples of heat insulators (Bad conductors).
- 24.The materials that allow heat to flow through are called .....
- 25.The materials that don't let heat flow through are called .....
- 26.Air is ..... conductor of heat.
- 27.Copper conducts heat ..... than aluminum.
- 28.A ..... are left between the railway bars to avoid.....
- 29..... And..... are used in making the handles of cooking pots .
- 30..... is used in making the cooking pots because it is ..... Conductor of heat.
- 31.Heat conductors are used in making .....
- 32.Heat insulators are used in making .....
- 33.The human temperature is measured with .....
- 34.The graduation of the medical thermometer starts from .....to .....
- 35.There is a constriction in the medical thermometer to .....
- 36.The ..... thermometer is used in measuring the human body temperature , while ..... thermometer is used to measure the liquid temperature.
- 37.The idea of thermometer operation is changing the ..... of the liquid inside it by the changing of the .....



38. The medical thermometer contains ..... That prevents the liquid from returning back to the bulb.
39. The temperature of the normal body is .....
40. You should ..... the medical thermometer before using it.
41. The medical thermometer sterilized by using ..... before using.
42. The degree of the Celsius thermometer starts from ..... to .....
43. When you touch an ice piece , you feel ..... due to the transfer of heat from ..... to .....
44. When you touch hot tea, you feel ..... due to the transfer of heat from ..... to .....
45. The handles of cooking pots are made up of .....
46. .... and ..... are examples of the conductors.
47. .... conducts heat faster than ..... and iron.

**✱(3) Give reason for:**

**1- There are gaps (spaces) between the railway bars.**

**2- We wear the heavy clothes in winter.**

**3- The mass of a body on the Earth is equal to its mass on moon.**

**4- Plastic is used to make the handles of the Cooking Pots.**

**5- Cooking Pots are made up of the aluminum.**

**6- In cold countries, the windows are made of two sheets contains air.**

**7- The presence of constriction in the medical thermometer.**

**8- You shouldn't press on the medical thermometer with your teeth.**

**9- Mercury is used in manufacturing of thermometers.**

**10- The degree of medical thermometers ranges between  $35^{\circ}\text{C}$  and  $42^{\circ}\text{C}$ .**

**11- The medical thermometer is shaking before using.**

**12- There are spaces between the railway's bars.**

**13- There is a space left between the sheets of the windows in the cold countries.**

**14- Aluminum is used in manufacturing of cooking utensils.**

**15- Wood is used in manufacturing of the handles of cooking pots.**

**16- We wear the wool clothes in winter.**



**☀(4) Put ( ✓ ) or ( X ) :**

- |  |     |
|--|-----|
| 1. Glass is bad conductor of heat.                                   | ( ) |
| 2. Mass differs according to the planet where the object exist.      | ( ) |
| 3. Aluminum are used in making utensils.                             | ( ) |
| 4. Aluminum is faster in conducting heat than iron.                  | ( ) |
| 5. Air is a good conductor of heat.                                  | ( ) |
| 6. Weight of the object increases as its mass increases.             | ( ) |
| 7. Mass differs from place to another.                               | ( ) |
| 8. Celsius thermometer is used in measuring the human temperature.   | ( ) |
| 9. Celsius thermometer graduation starts from zero to 100.           | ( ) |
| 10. Medical thermometer is used in measuring the liquid temperature. | ( ) |
| 11. There is a constriction in the Celsius thermometers.             | ( ) |
| 12. The thermometric liquid is mercury.                              | ( ) |
| 13. Medical thermometer graduation starts from 35 to 42.             | ( ) |
| 14. mercury is the liquid which used in the medical thermometers.    | ( ) |
| 15. Wood is one of the good heat conductors.                         | ( ) |
| 16. Handles of utensils are made up of copper.                       | ( ) |
| 17. Aluminum is one of the bad conductors.                           | ( ) |
| 18. Copper is slower in conduction the heat than iron.               | ( ) |
| 19. Heat indicates to the hotness or coldness.                       | ( ) |
| 20. Heat transfer from hot to cold bodies.                           | ( ) |
| 21. Copper doesn't let heat flow through it .                        | ( ) |
| 22. One Kg = 100 gm.   | ( ) |
| 23. Weight is the force that attracts objects towards Earth.         | ( ) |
| 24. The gravitational force that affects on 200 gm apple = 1 Newton. | ( ) |
| 25. As the mass of an object increases, its weight decreases.        | ( ) |
| 26. Weight = Mass $\times$ 10.                                       | ( ) |

✱(5) TRY TO Answer : (حاول الحل بنفسك)

1- If the mass on Earth is 30 Kg, calculate :

- a- Its mass on moon .
- b- Its weight on Earth.
- c- Its weight on moon.

2- An object whose mass on earth is equal to 60 kg Calculate:

A. Its weight on the Earth.

B. Its weight on the moon.

3-

Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Celsius thermometer.	a. its scale is from 35°C to 42°C.
2. Freezing point of water.	b. is 37°C.
3. Medical thermometer.	c. is 0°C.
4. The normal human body temperature.	d. its scale is from 0°C to 100°C.
	e. is 100°C.

1. ....

2. ....

3. ....

4. ....



4-

**Look at the opposite figures and then answer:**

A. 1. This figure represents .....

2. Label the figure:

1- .....

2- .....

3- .....

4- .....

3. This device is used for .....

4. The function of part 2 is .....



5-

(A)	(B)
1. The clinical thermometer	a. is used to sterilize the clinical thermometer.
2. The Celsius thermometer	b. is used to measure the temperature of liquids.
3. Ethyl alcohol	c. is used to measure the temperature of the human body.
4. The mercury	d. is a liquid metal that expands regularly by heating.
5. The thermometer	e. is a device used to measure temperature.

1. .... 2. .... 3. .... 4. .... 5. ....

6-

**Look at the following figure then answer:**

1. What is the name of this device?

.....

2. Mention the uses of this device.

.....

3. What is the liquid which is used in making it?

.....



7-

1. This figure represents .....

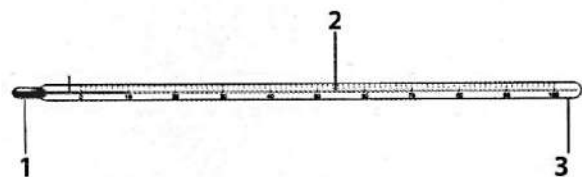
2. Label the figure:

1- .....

2- .....

3- .....

3. This device is used for .....



## Model Answer

### ✱ (1) Write the scientific term:

- |                   |                         |
|-------------------|-------------------------|
| 1. Mass           | 8. Spring scale         |
| 2. Heat conductor | 9. Kg                   |
| 3. Copper         | 10. Gram                |
| 4. Heat insulator | 11. Thermometer         |
| 5. Kg             | 12. Celsius thermometer |
| 6. Weight         | 13. Medical thermometer |
| 7. Newton         | 14. Ethyl alcohol       |

### ✱ (2) Complete the following:

- |                             |                                       |   |
|-----------------------------|---------------------------------------|---|
| 1. Kg – gm – newton         | 18. Energy – higher – lower           | 32. the handles of cooking pots                             |
| 2. Plastic – wood – glass   | 19. Temperature – hotness or coldness | 33. Medical thermometer                                     |
| 3. Copper – iron – aluminum | 20. Medical thermometer               | 34. 35 – 42   |
| 4. Copper                   | 21. higher – lower                    | 35. Prevent mercury from returning back to the bulb quickly |
| 5. 1/6                      | 22. Heat conductor – heat insulator   | 36. Medical – Celsius                                       |
| 6. Mass – one paper clip    | 23. Iron – copper – wood – plastic    | 37. Volume – temperature                                    |
| 7. Sensitive                | 24. Heat conductor                    | 38. Constriction  |
| 8. Place                    | 25. heat insulator                    | 39. 37  |
| 9. Weight                   | 26. bad                               | 40. Sterilize   |
| 10. 100                     | 27. faster                            | 41. Ethyl alcohol   |
| 11. 200                     | 28. spaces – accident                 | 42. 35 – 42   |
| 12. 1                       | 29. wood – plastic                    | 43. Cold – hand – ice                                       |
| 13. 3                       | 30. aluminum – good                   | 44. Hot – hot tea – hand                                    |
| 14. Mass $\times$ 10        | 31. making the cooking pots           | 45. Plastic   |
| 15. 100                     |                                       | 46. Wood – plastic  |
| 16. Decrease                |                                       | 47. Copper – aluminum                                       |
| 17. Newton – spring scale   |                                       |   |

### ✱(3) Give reason for:

1. To avoid train accidents
2. To keep the body warm as wool is a bad conductor of heat.
3. Because mass has fixed value
4. Because they are bad conductors of heat.
5. Because they are good conductors of heat.
6. To prevent leakage of heat as air is a bad conductor of heat.
7. To prevent mercury from going back to the bulb quickly in order to read the temperature easily
8. In order not to be broken as mercury is toxic.
9. **Because:**  
It is a good conductor of heat.  
It expands regularly to give an accurate measurement.  
It doesn't stick to the walls of the capillary tube.
10. Because the temperature of human body cannot be more than this degree.
11. To force the mercury, go back to the bulb.
12. To avoid train accidents
13. To prevent leakage of heat
14. Because it allows the heat to flow through.
15. Because they are bad conductors of heat.
16. To keep the body warm as wool is a bad conductor of heat.

### ✱(4) Put (✓) or (X)

1. (✓)	7. (X)	13.(✓)	19.(X)	25.(X)
2. (X)	8. (X)	14.(✓)	20.(✓)	26.(✓)
3. (✓)	9. (✓)	15.(X)	21.(X)	
4. (✓)	10.(X)	16.(X)	22.(X)	
5. (X)	11.(X)	17.(X)	23.(✓)	
6. (✓)	12.(✓)	18.(X)	24.(X)	



## Revision sheet for 6<sup>th</sup> primary

### [1] complete the sentences:

- 1) Some usages of good conductors of heat are ..... and .....
- 2) Mass is constant and is not affected by .....
- 3) One Newton=.....grams
- 4) The main idea of the thermometer's action is changing the ..... of the liquids inside as the ..... changes.
- 5) If the weight of an object equals 100 Newton, then its mass equals.....
- 6) Some examples of good conductors of heat are ..... and .....
- 7) ..... conducts heat faster than aluminum.
- 8) Some examples of bad conductors of heat are .....and .....
- 9)..... is a device used to measure the temperature.
- 10) Some usages of bad conductors of heat are ..... and .....
- 11) The measuring unit of mass is.....or ....., while the measuring unit of weight is .....

### [2] Put (✓) or (X):

- 1) Weight doesn't change from a planet to another. [    ]
- 2) The volume of mercury decreases by increasing the temperature. [    ]
- 3) Different metals differ in their ability to conduct heat. [    ]
- 4) Weight of any object on the Earth's surface increases by increasing the object's mass. [    ]
- 5) The mass of one liter of distilled water equals 100gm. [    ]
- 6) Distances are left between railways bars to prevent their twist when they expand. [    ]
- 7) Earth gravitational force increases as the body moves away from the earth. [    ]

- 8) We can depend on sense of touching to measure temperature of patient. [     ]
- 9) Mass of a piece of stone on Earth surface is smaller than its mass on moon. [     ]

**[3] Choose the correct answer:**

**1) The measuring unit of small masses is.....**

- a) Kilogram                      b) Gram                      c) Newton                      d) meter

**2) Copper.....**

- a) Doesn't allow heat to flow through                      b) Allows heat to flow through  
c) Is a heat insulator                      d) All the previous answers

**3) One gram is nearly equal to.....**

- a) Liter of water                      b) liter of oil                      c) one paper clip                      d) one iron nail

**4) Which of the following is faster in conducting heat.....**

- a) Copper                      b) iron                      c) aluminum                      d) glass

**5) The weight of the body on earth's surface equals 6 Newton, so its weight on moon's surface equals .....**

- a) 1 kg                      b) 1 Newton                      c) 6 kg                      d) 6 kg

**6) If the weight of a body is 20 Newton, its mass equals.....**

- a) 2 Kg                      b) 20 Kg                      c) 2N                      d) 200 Kg

**7) Air is used in making the insulating glass windows as it.....**

- a) Is a heat conductor.                      b) is a heat insulator.  
c) Prevents the leakage of heat.                      d) (b) and (c)

**8) The weight of a body = the mass in kilogram x.....**

- a) 9                      b) 10                      c) 11                      d) 12

**9) The measuring device of temperature is a .....**

- a) recorder                      b) thermometer                      c) scale                      d) barometer

**10) The body mass on the earth is .....its mass on the moon.**

- a) More than                      b) less than                      c) equal to                      d) no correct answer

**11) The object's weight increases by increasing the.....**

- a) Mass                      b) volume                      c) length                      d) motion

**12) The weight of a person in a balloon at a certain height from the earth's surface equals 70N, what is the weight of the person on the earth's surface?**

- a) 68N                      b) 69 N                      c) 70 N                      d) 71 N

**13) The newton is nearly the weight of a body its mass equals.....**

- a) 1 gm.                      b) 100 gm.                      c) 500 gm.                      d) 5000 gm.

**14) .....is a good conductor of heat**

- a) Glass                      b) Plastic                      c) Iron                      d) Wood

**4) Choose from column (B) what suits it in column (A):**

(A)	(B)
<p>1- A tool used to estimate mass of golden ring.</p> <p>2- A form of energy that transfers from a body with a high temperature to a body with a low temperature.</p> <p>3- Measuring unit of mass which is almost equal to a mass of one paper clip.</p> <p>4- The degree of hotness or coldness of the body.</p> <p>5- A tool used to measure the weight of your school bag.</p> <p>6- Materials are used in making cooking utensils.</p> <p>7- A metal that conducts heat faster than aluminum.</p>	<p>a- heat conductors</p> <p>b- spring scale</p> <p>c- temperature</p> <p>d- copper</p> <p>e- sensitive two-arms scale</p> <p>f- heat energy</p> <p>g- gm</p>



1-..... 2-..... 3-..... 4-..... 5-..... 6-..... 7- .....

**[5] Give reasons for:**

1) The weight of an object on the moon is less than its weight on the Earth.

.....

2) The mass of body on the Earth's surface equals the mass of the same body on the moon's surface.

.....

3) Cooking utensils are made of copper or aluminum while their handles are made of plastic.

.....

4) We use wool clothes during winter.

.....

**[6] What happens when?**

1) The cooking utensils are made of wood.

.....

2) There is no gravity on the Earth's surface.

.....

**[7] Problems:**

**1) If the object's mass=30 kg on Earth, calculate:**

a) Its mass on the moon

.....

b) Its weight on the Earth

.....

c) Its weight on the moon

.....

## Revision sheet for 6<sup>th</sup> primary

### [1] complete the sentences:

- 1) Some usages of good conductors of heat are ...**cooking pots**...and...**boilers**....
- 2) ...mass is constant and is not affected by .....**the place**.....
- 3) One Newton=...**100**.....grams
- 4) The main idea of the thermometer's action is changing the ...**volume**..... of the liquids inside as the ...**temperature**..... changes.
- 5) If the weight of an object equals 100 Newton, then its mass equals.....**10 kg**.....
- 6) Some examples of good conductors of heat are ...**iron**..... and  
...**copper**.....
- 6) 7) .....**copper**..... conducts heat faster than aluminum.
- 8) Some examples of bad conductors of heat are .....**wood**.....and .....**plastic**.....
- 9)...**Thermometer**..... is a device used to measure the temperature.
- 10) Some usages of bad conductors of heat are ...**woolen clothes**..... and  
...**handles of cooking pots** .....
- 11) The measuring unit of mass is.....**gm**.....or .....**kg**....., while the measuring unit of weight is .....**newton**.....

### [2] Put (V) or (X):

- 1) Weight doesn't change from a planet to another. [ **x** ]
- 2) The volume of mercury decreases by increasing the temperature. [ **x** ]
- 3) Different metals differ in their ability to conduct heat. [ **v** ]
- 4) Weight of any object on the Earth's surface increases by increasing the

object's mass.

[ v ]

5) The mass of one liter of distilled water equals 100gm.

[ x ]

6) Distances are left between railways bars to prevent their twist when they expand.

[ v ]

7) Earth gravitational force increases as the body moves away from the earth. [ x ]

8) We can depend on sense of touching to measure temperature of patient. [ x ]

9) Mass of a piece of stone on Earth surface is smaller than its mass on moon. [ x ]

### [3] Choose the correct answer:

**1) The measuring unit of small masses is.....**

a) Kilogram

**b) Gram**

c) Newton

d) meter

**2) Copper.....**

a) Doesn't allow heat to flow through

**b) Allows heat to flow through**

c) Is a heat insulator

d) All the previous answers

**3) One gram is nearly equal to.....**

a) Liter of water

b) liter of oil

**c) one paper clip**

d) one iron nail

**4) Which of the following is faster in conducting heat.....**

**a) Copper**

b) iron

c) aluminum

d) glass

**5) The weight of the body on earth's surface equals 6 Newton, so its weight on moon's surface equals .....**

a) 1 kg

**b) 1 Newton**

c) 6 kg

d) 6 kg

**6) If the weight of a body is 20 Newton, its mass equals.....**

**a) 2 Kg**

b) 20 Kg

c) 2N

d) 200 Kg





(A)	(B)
<p>1- A tool used to estimate mass of golden ring.</p> <p>2- A form of energy that transfers from a body with a high temperature to a body with a low temperature.</p> <p>3- Measuring unit of mass which is almost equal to a mass of one paper clip.</p> <p>4- The degree of hotness or coldness of the body.</p> <p>5- A tool used to measure the weight of your school bag.</p> <p>6- Materials are used in making cooking utensils.</p> <p>7- A metal that conducts heat faster than aluminum.</p>	<p>a- heat conductors</p> <p>b- spring scale</p> <p>c- temperature d- copper e- sensitive two-arms</p> <p>scale</p> <p>f- heat energy g- gm</p>

1-...e... 2-...f... 3-...g... 4-...c... 5-...b... 6-...a... 7- ...d...

**[5] Give reasons for:**

- 1) The weight of an object on the moon is less than its weight on the Earth. ...Bec.  
 The mass of the moon less than the mass of the earth , so the gravitational force on moon less than the earth.

2) The mass of body on the Earth's surface equals the mass of the same body on the moon's surface.

...Bec. Mass is constant doesn't change by changing the place .

3) Cooking utensils are made of copper or aluminum while their handles are made of plastic.

...Bec. copper or aluminum allow the heat to pass through it , while plastic don't allow the heat to pass through.

4) We use wool clothes during winter.

...To prevent the leakage of heat as wool is a heat insulator.

### **[6] What happens when?**

1) The cooking utensils are made of wood.

...It will burn .....

2) There is no gravity on the Earth's surface.

...Anything won't have weight.....

### **[7] Problems:**

**1) If the object's mass=30 kg on Earth, calculate: a)**

Its mass on the moon

.....30 kg.....

b) Its weight on the Earth

.....=mass (kg) x 10 = 30 x 10 = 300 N .....

c) Its weight on the moon

.....= 1/ 6 x weight on earth = 1/6 x 300 = 50 N .....